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(FILE 'HOME' ENTERED AT 13:18:36 ON 10 JAN 2002)

FILE 'REGISTRY' ENTERED AT 13:18:41 ON 10 JAN 2002

L1 4 SEA ABB=ON PLU=ON PHOSPHOFRUCTOKINASE/CN  
D 1-4

FILE 'HCAPLUS' ENTERED AT 13:19:08 ON 10 JAN 2002

FILE 'REGISTRY' ENTERED AT 13:19:12 ON 10 JAN 2002

L2 SET SMARTSELECT ON  
SEL PLU=ON L1 1- CHEM : 39 TERMS  
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 13:19:13 ON 10 JAN 2002

L3 7317 SEA ABB=ON PLU=ON L2  
L4 3 SEA ABB=ON PLU=ON L3 (L) (CORYNEFORM OR CORYNEFORM BACTERIA  
OR (BACTERIA (L) CORYNEFORM))  
D IBIB AB 1-3

FILE 'HCAPLUS' ENTERED AT 13:22:12 ON 10 JAN 2002

FILE 'REGISTRY' ENTERED AT 13:22:22 ON 10 JAN 2002

L5 SET SMARTSELECT ON  
SEL PLU=ON L1 1- CHEM : 39 TERMS  
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 13:22:24 ON 10 JAN 2002

L6 7317 SEA ABB=ON PLU=ON L5  
L7 3 SEA ABB=ON PLU=ON L6 (L) (CORYNEFORM OR CORYNEFORM BACTERIA  
OR (BACTERIA (L) CORYNEFORM) )  
D IBIB AB 1-3

=> d ibib ab 1-3

L4 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:396523 HCAPLUS  
DOCUMENT NUMBER: 135:2880  
TITLE: The pfk gene of Corynebacterium glutamicum and its use  
in increasing yields of lysine in fermentation  
INVENTOR(S): Mockel, Bettina; Pfefferle, Walter  
PATENT ASSIGNEE(S): Degussa A.-G., Germany  
SOURCE: Eur. Pat. Appl., 19 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1103613	A1	20010530	EP 2000-125528	20001122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19956131	A1	20010531	DE 1999-19956131	19991123
JP 2001186895	A2	20010710	JP 2000-354308	20001121
CN 1297055	A	20010530	CN 2000-132502	20001123
BR 2000005543	A	20010807	BR 2000-5543	20001123
PRIORITY APPLN. INFO.: DE 1999-19956131 A 19991123				
AB The pfk gene of Corynebacterium glutamicum ATCC13032 encoding a <b>phosphofructokinase</b> is cloned and characterized for use in increasing the efficiency of fermn. of lysine by <b>coryneform</b> <b>bacteria</b> . The gene was identified by querying a C. glutamicum sequence database for homologs of known pfk genes.				
REFERENCE COUNT: 4				
REFERENCE(S): (1) Ajinomoto Kk; EP 1010755 A 2000 HCAPLUS (2) Basf Ag; WO 0100844 A 2001 HCAPLUS (3) Kiyoshi, N; Microorganisms in amino acid fermentation 1972 (4) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS				

L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:393183 HCAPLUS  
DOCUMENT NUMBER: 135:16690  
TITLE: The pfkA gene of Corynebacterium glutamicum and its  
use in increasing yields of lysine in fermentation  
INVENTOR(S): Moeckel, Bettina; Pfefferle, Walter  
PATENT ASSIGNEE(S): Degussa-Huels A.-G., Germany  
SOURCE: Ger. Offen., 12 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10011922	A1	20010531	DE 2000-10011922	20000311
EP 1106622	A2	20010613	EP 2000-122746	20001019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1297054	A	20010530	CN 2000-132480	20001121
JP 2001186896	A2	20010710	JP 2000-354681	20001121
BR 2000005531	A	20010807	BR 2000-5531	20001123
PRIORITY APPLN. INFO.: DE 1999-19956133 A1 19991123 DE 2000-10011922 A 20000311				
AB The pfkA gene of Corynebacterium glutamicum ATCC13032 encoding a <b>phosphofructokinase</b> is cloned and characterized for use in increasing the efficiency of fermn. of lysine by <b>coryneform</b> <b>bacteria</b> . The gene was identified by querying a C. glutamicum sequence database for homologs of known pfkA genes.				

ACCESSION NUMBER: 2000:900776 HCAPLUS  
 DOCUMENT NUMBER: 134:67152  
 TITLE: L-lysine production with **coryneform**  
 bacterium **6-phosphofructokinase**  
 coding pfk gene  
 INVENTOR(S): Sugimoto, Masakazu; Nakamura, Jun; Izui, Hiroshi;  
 Kimura, Eiichiro; Ito, Hisao; Nakamatsu, Tsuyoshi;  
 Kurahashi, Osamu  
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077172	A1	20001221	WO 2000-JP3736	20000608
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			JP 1999-168377	A 19990615
			JP 1999-311111	A 19991101

AB A **coryneform** bacterium having an enhanced **6-phosphofructokinase** activity in cell and being capable of producing L-lysine; a process for producing L-lysine in the above **coryneform** bacterium; and a DNA usable in enhancing the **6-phosphofructokinase** activity, are disclosed. E. coli (pfkB) gene coding for **6-phosphofructokinase** was expressed in Brevibacterium lactofermentum. Increased prodn. of L-lysine was obsd. in the transformants. A gene (pfk) coding for **6-phosphofructokinase** was cloned from Brevibacterium lactofermentum.

REFERENCE COUNT: 8

REFERENCE(S): (1) Dijkhuizen, L; APPLIED AND ENVIRONMENTAL MICROBIOLOGY 1997, V63(3), P956  
 (2) Dijkhuizen, L; APPLIED AND ENVIRONMENTAL MICROBIOLOGY 1997, V63(3), P956  
 (3) Fevzi, D; Gene 1984, V28, P337  
 (7) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS  
 (8) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib ab 1-3

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:396523 HCAPLUS  
DOCUMENT NUMBER: 135:2880  
TITLE: The pfk gene of Corynebacterium glutamicum and its use  
in increasing yields of lysine in fermentation  
INVENTOR(S): Mockel, Bettina; Pfefferle, Walter  
PATENT ASSIGNEE(S): Degussa A.-G., Germany  
SOURCE: Eur. Pat. Appl., 19 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1103613	A1	20010530	EP 2000-125528	20001122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19956131	A1	20010531	DE 1999-19956131	19991123
JP 2001186895	A2	20010710	JP 2000-354308	20001121
CN 1297055	A	20010530	CN 2000-132502	20001123
BR 2000005543	A	20010807	BR 2000-5543	20001123

PRIORITY APPLN. INFO.: DE 1999-19956131 A 19991123

AB The pfk gene of Corynebacterium glutamicum ATCC13032 encoding a **phosphofructokinase** is cloned and characterized for use in increasing the efficiency of fermm. of lysine by **coryneform bacteria**. The gene was identified by querying a C. glutamicum sequence database for homologs of known pfk genes.

REFERENCE COUNT: 4

REFERENCE(S): (1) Ajinomoto Kk; EP 1010755 A 2000 HCAPLUS  
(2) Basf Ag; WO 0100844 A 2001 HCAPLUS  
(3) Kiyoshi, N; Microorganisms in amino acid fermentation 1972  
(4) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:393183 HCAPLUS  
DOCUMENT NUMBER: 135:16690  
TITLE: The pfkA gene of Corynebacterium glutamicum and its  
use in increasing yields of lysine in fermentation  
INVENTOR(S): Moeckel, Bettina; Pfefferle, Walter  
PATENT ASSIGNEE(S): Degussa-Huels A.-G., Germany  
SOURCE: Ger. Offen., 12 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10011922	A1	20010531	DE 2000-10011922	20000311
EP 1106622	A2	20010613	EP 2000-122746	20001019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1297054	A	20010530	CN 2000-132480	20001121
JP 2001186896	A2	20010710	JP 2000-354681	20001121
BR 2000005531	A	20010807	BR 2000-5531	20001123

PRIORITY APPLN. INFO.: DE 1999-19956133 A1 19991123

DE 2000-10011922 A 20000311

AB The pfkA gene of Corynebacterium glutamicum ATCC13032 encoding a **phosphofructokinase** is cloned and characterized for use in increasing the efficiency of fermm. of lysine by **coryneform bacteria**. The gene was identified by querying a C. glutamicum sequence database for homologs of known pfkA genes.

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USPT,PGPB	110 and 17	3	<a href="#">L11</a>
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USPT,PGPB	18 and (phosphofructokinase or phosphofructose kinase or fuctose phosphate kinase)	18	<a href="#">L9</a>
USPT,PGPB	coryneform or coryneform bacteria	334	<a href="#">L8</a>
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USPT,PGPB	((435/252.32)!.CCLS.) )	109	<a href="#">L4</a>
USPT,PGPB	((435/252.3)!.CCLS.) )	5136	<a href="#">L3</a>
USPT,PGPB	((435/194 )!.CCLS. ) )	781	<a href="#">L2</a>
USPT,PGPB	((435/183 )!.CCLS. )	1171	<a href="#">L1</a>

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 18 of 18 returned.**☐ 1. Document ID: US 20020004231 A1

L10: Entry 1 of 18

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004231

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004231 A1

TITLE: L-glutamic acid-producing bacterium and method for producing L-glutamic acid

PUBLICATION-DATE: January 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moriya, Mika	Kawasaki-shi		JP	
Izui, Hiroshi	Kawasaki-shi		JP	
Ono, Eiji	Kawasaki-shi		JP	
Matsui, Kazuhiko	Kawasaki-shi		JP	
Ito, Hisao	Kawasaki-shi		JP	
Hara, Yoshihiko	Kawasaki-shi		JP	

US-CL-CURRENT: [435/110](#); [435/252.3](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 20010019836 A1

L10: Entry 2 of 18

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010019836  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010019836 A1

TITLE: L-glutamic acid-producing bacterium and method for producing L-glutamic acid

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moriya, Mika	Kawasaki-shi		JP	
Izui, Hiroshi	Kawasaki-shi		JP	
Ono, Eiji	Kawasaki-shi		JP	
Matsui, Kazuhiko	Kawasaki-shi		JP	
Ito, Hisao	Kawasaki-shi		JP	
Hara, Yoshihiko	Kawasaki-shi		JP	

US-CL-CURRENT: 435/110; 435/252.1, 435/252.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Draw Desc	Image
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☐ 3. Document ID: US 6331419 B1

L10: Entry 3 of 18

File: USPT

Dec 18, 2001

US-PAT-NO: 6331419

DOCUMENT-IDENTIFIER: US 6331419 B1

TITLE: L-glutamic acid-producing bacterium and method for producing L-glutamic acid

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriya, Mika	Kawasaki			JPX
Izui, Hiroshi	Kawasaki			JPX
Ono, Eiji	Kawasaki			JPX
Matsui, Kazuhiko	Kawasaki			JPX
Ito, Hisao	Kawasaki			JPX
Hara, Yoshihiko	Kawasaki			JPX

US-CL-CURRENT: 435/110; 435/106, 435/170, 435/252.1, 435/822, 435/880

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Draw Desc	Image
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☐ 4. Document ID: US 6197559 B1

L10: Entry 4 of 18

File: USPT

Mar 6, 2001

US-PAT-NO: 6197559  
DOCUMENT-IDENTIFIER: US 6197559 B1

TITLE: L-glutamic acid-producing bacterium and method for producing L-glutamic acid

DATE-ISSUED: March 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriya; Mika	Kawasaki			JPX
Izui; Hiroshi	Kawasaki			JPX
Ono; Eiji	Kawasaki			JPX
Matsui; Kazuhiko	Kawasaki			JPX
Ito; Hisao	Kawasaki			JPX
Hara; Yoshihiko	Kawasaki			JPX

US-CL-CURRENT: 435/110; 435/847, 435/852

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5977331 A

L10: Entry 5 of 18

File: USPT

Nov 2, 1999

US-PAT-NO: 5977331

DOCUMENT-IDENTIFIER: US 5977331 A

TITLE: .alpha.-Ketoglutarate dehydrogenase gene

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Asakura; Yoko	Kawasaki			JPX
Usuda; Yoshihiro	Kawasaki			JPX
Tsujimoto; Nobuharu	Kawasaki			JPX
Kimura; Eiichiro	Kawasaki			JPX
Abe; Chizu	Kawasaki			JPX
Kawahara; Yoshio	Kawasaki			JPX
Nakamatsu; Tsuyoshi	Kawasaki			JPX
Kurahashi; Osamu	Kawasaki			JPX

US-CL-CURRENT: 536/23.1; 435/106, 435/110, 435/252.32

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5955261 A

L10: Entry 6 of 18

File: USPT

Sep 21, 1999



US-PAT-NO: 5955261  
DOCUMENT-IDENTIFIER: US 5955261 A

TITLE: Method for detecting the presence of group-specific viral mRNA in a sample

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/5; 435/6, 536/23.72, 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5932416 A

L10: Entry 7 of 18

File: USPT

Aug 3, 1999

US-PAT-NO: 5932416  
DOCUMENT-IDENTIFIER: US 5932416 A

TITLE: Method for detecting the presence of RNA belonging to an organ or tissue cell-type

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA	90237	

US-CL-CURRENT: 435/6; 536/23.1, 536/23.5, 536/24.31

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5928864 A

L10: Entry 8 of 18

File: USPT

Jul 27, 1999

US-PAT-NO: 5928864  
DOCUMENT-IDENTIFIER: US 5928864 A

TITLE: Method for determining the presence of organisms in a sample by detecting transfer nucleic acid

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6; 536/23.1, 536/24.3, 536/24.31, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5846790 A

L10: Entry 9 of 18

File: USPT

Dec 8, 1998

US-PAT-NO: 5846790

DOCUMENT-IDENTIFIER: US 5846790 A

TITLE: Methods of producing L-lysine and L-glutamic acid by fermentation

DATE-ISSUED: December 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimura; Eiichiro	Kawasaki			JPX
Asakura; Yoko	Kawasaki			JPX
Uehara; Akinori	Kawasaki			JPX
Inoue; Sumio	Kawasaki			JPX
Kawahara; Yoshio	Kawasaki			JPX
Yoshihara; Yasuhiko	Kawasaki			JPX
Nakamatsu; Tsuyoshi	Kawasaki			JPX

US-CL-CURRENT: 435/110; 435/111, 435/115, 435/252.1, 435/252.32, 435/840,  
435/843

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5738989 A

L10: Entry 10 of 18

File: USPT

Apr 14, 1998

US-PAT-NO: 5738989

DOCUMENT-IDENTIFIER: US 5738989 A

TITLE: Method for determining the sensitivity of microorganisms to anti  
microbial agents using ribosomal nucleic acid hybridization

DATE-ISSUED: April 14, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5738988 A

L10: Entry 11 of 18

File: USPT

Apr 14, 1998

US-PAT-NO: 5738988  
DOCUMENT-IDENTIFIER: US 5738988 A

TITLE: Method for detecting antimicrobial agents or unknown organisms in a sample using ribosomal probe hybridization

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMNC	Draw Desc	Image
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☐ 12. Document ID: US 5723597 A

L10: Entry 12 of 18

File: USPT

Mar 3, 1998

US-PAT-NO: 5723597  
DOCUMENT-IDENTIFIER: US 5723597 A

TITLE: Ribosomal nucleic acid probes for detecting organisms or groups of organisms

DATE-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 536/24.3; 536/24.31, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMNC	Draw Desc	Image
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☐ 13. Document ID: US 5714324 A

L10: Entry 13 of 18

File: USPT

Feb 3, 1998

US-PAT-NO: 5714324  
DOCUMENT-IDENTIFIER: US 5714324 A

TITLE: Methods for producing hybridization probes specific for rRNA subunit subsequences

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6; 536/25.3

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5688645 A

L10: Entry 14 of 18

File: USPT

Nov 18, 1997

US-PAT-NO: 5688645

DOCUMENT-IDENTIFIER: US 5688645 A

TITLE: Method for detecting, identifying, and quantitating non-viral organisms

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6; 536/24.3, 536/24.31, 536/24.32

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Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5641632 A

L10: Entry 15 of 18

File: USPT

Jun 24, 1997

US-PAT-NO: 5641632

DOCUMENT-IDENTIFIER: US 5641632 A

TITLE: Method for preparing rRNA for hybridization with a probe

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6; 435/5, 435/91.1, 435/91.2, 536/24.3, 536/24.31, 536/24.32

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Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5641631 A

L10: Entry 16 of 18

File: USPT

Jun 24, 1997

US-PAT-NO: 5641631

DOCUMENT-IDENTIFIER: US 5641631 A

TITLE: Method for detecting, identifying, and quantitating organisms and viruses

DATE-ISSUED: June 24, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6; 435/91.2, 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 17. Document ID: US 5601984 A

L10: Entry 17 of 18

File: USPT

Feb 11, 1997

US-PAT-NO: 5601984

DOCUMENT-IDENTIFIER: US 5601984 A

TITLE: Method for detecting, the presense or amount of a taxonomic group of organisms using specific R-RNA subsequences as probes

DATE-ISSUED: February 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	------	-----------	-------

☐ 18. Document ID: US 5567587 A

L10: Entry 18 of 18

File: USPT

Oct 22, 1996

US-PAT-NO: 5567587

DOCUMENT-IDENTIFIER: US 5567587 A

TITLE: Method for detecting, the presence and amount of prokaryotic organisms using specific rRNA subsequences as probes

DATE-ISSUED: October 22, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kohne; David E.	La Jolla	CA		

US-CL-CURRENT: 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWMC	Draw Desc	Image
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Terms	Documents
19 and (nucleic acid or polynucleotide or nucleotide or DNA or cDNA)	18

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Display

30

Documents, starting with Document:

18

**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 20020004231 A1

L11: Entry 1 of 3

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004231

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004231 A1

TITLE: L-glutamic acid-producing bacterium and method for producing L-glutamic acid

PUBLICATION-DATE: January 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moriya, Mika	Kawasaki-shi		JP	
Izui, Hiroshi	Kawasaki-shi		JP	
Ono, Eiji	Kawasaki-shi		JP	
Matsui, Kazuhiko	Kawasaki-shi		JP	
Ito, Hisao	Kawasaki-shi		JP	
Hara, Yoshihiko	Kawasaki-shi		JP	

US-CL-CURRENT: [435/110](#); [435/252.3](#)[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 5977331 A

L11: Entry 2 of 3

File: USPT

Nov 2, 1999

US-PAT-NO: 5977331

DOCUMENT-IDENTIFIER: US 5977331 A

TITLE: .alpha.-Ketoglutarate dehydrogenase gene

DATE-ISSUED: November 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Asakura; Yoko	Kawasaki			JPX
Usuda; Yoshihiro	Kawasaki			JPX
Tsujimoto; Nobuharu	Kawasaki			JPX
Kimura; Eiichiro	Kawasaki			JPX
Abe; Chizu	Kawasaki			JPX
Kawahara; Yoshio	Kawasaki			JPX
Nakamatsu; Tsuyoshi	Kawasaki			JPX
Kurahashi; Osamu	Kawasaki			JPX

US-CL-CURRENT: 536/23.1; 435/106, 435/110, 435/252.32

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5846790 A

L11: Entry 3 of 3

File: USPT

Dec 8, 1998

US-PAT-NO: 5846790

DOCUMENT-IDENTIFIER: US 5846790 A

TITLE: Methods of producing L-lysine and L-glutamic acid by fermentation

DATE-ISSUED: December 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimura; Eiichiro	Kawasaki			JPX
Asakura; Yoko	Kawasaki			JPX
Uehara; Akinori	Kawasaki			JPX
Inoue; Sumio	Kawasaki			JPX
Kawahara; Yoshio	Kawasaki			JPX
Yoshihara; Yasuhiko	Kawasaki			JPX
Nakamatsu; Tsuyoshi	Kawasaki			JPX

US-CL-CURRENT: 435/110; 435/111, 435/115, 435/252.1, 435/252.32, 435/840,  
435/843

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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Terms	Documents
110 and 17	3

Documents, starting with Document:

**Display Format:**

✓ ACCESSION NUMBER: 2000:900776 HCAPLUS  
 DOCUMENT NUMBER: 134:67152  
 TITLE: L-lysine production with **coryneform**  
 bacterium **6-phosphofructokinase**  
 coding pfk gene  
 INVENTOR(S): Sugimoto, Masakazu; Nakamura, Jun; Izui, Hiroshi;  
 Kimura, Eiichiro; Ito, Hisao; Nakamatsu, Tsuyoshi;  
 Kurahashi, Osamu  
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077172	A1	20001221	WO 2000-JP3736	20000608
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: JP 1999-168377 A 19990615  
 JP 1999-311111 A 19991101

AB A **coryneform** bacterium having an enhanced **6-phosphofructokinase** activity in cell and being capable of producing L-lysine; a process for producing L-lysine in the above **coryneform** bacterium; and a DNA usable in enhancing the **6-phosphofructokinase** activity, are disclosed. E. coli (pfkB) gene coding for **6-phosphofructokinase** was expressed in Brevibacterium lactofermentum. Increased prodn. of L-lysine was obsd. in the transformants. A gene (pfk) coding for **6-phosphofructokinase** was cloned from Brevibacterium lactofermentum.

REFERENCE COUNT: 8

REFERENCE(S): (1) Dijkhuizen, L; APPLIED AND ENVIRONMENTAL MICROBIOLOGY 1997, V63(3), P956  
 (2) Dijkhuizen, L; APPLIED AND ENVIRONMENTAL MICROBIOLOGY 1997, V63(3), P956  
 (3) Fevzi, D; Gene 1984, V28, P337  
 (7) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS  
 (8) Kyowa Hakko Kogyo Kk; JP 63102692 A 1988 HCAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

> s phosphofructokinase/cn  
L1 4 PHOSPHOFRUCTOKINASE/CN

=> d 1-4

L1 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 78689-77-7 REGISTRY  
CN Kinase (phosphorylating), 6-phosphofructo-2- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 6-Phosphofructo-2-kinase  
CN 6-Phosphofructose 2-kinase  
CN E.C. 2.7.1.105  
CN Fructose 6-phosphate 2-kinase  
CN **Phosphofructokinase**  
CN Phosphofructokinase 2  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,  
CAPLUS, CHEMINFORMRX, EMBASE, MEDLINE, MSDS-OHS, TOXCENTER, TOXLIT,  
USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
517 REFERENCES IN FILE CA (1967 TO DATE)  
53 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
518 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 55326-40-4 REGISTRY  
CN Phosphotransferase, pyrophosphate-fructose 6-phosphate 1- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 6-Phosphofructokinase (pyrophosphate)  
CN E.C. 2.7.1.90  
CN Inorganic pyrophosphate-dependent phosphofructokinase  
CN Inorganic pyrophosphate-phosphofructokinase  
CN **Phosphofructokinase**  
CN Pyrophosphate D-fructose-6-phosphate 1-phosphotransferase  
CN Pyrophosphate-D-fructose 6-phosphate 1-phosphotransferase  
CN Pyrophosphate-dependent phosphofructo-1-kinase  
CN Pyrophosphate-dependent phosphofructokinase  
CN Pyrophosphate-fructose 6-phosphate phosphotransferase  
CN Pyrophosphate-fructose-6-phosphate 1-phosphotransferase  
DR 59680-68-1  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS,  
CHEMCATS, EMBASE, MEDLINE, TOXCENTER, TOXLIT, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
366 REFERENCES IN FILE CA (1967 TO DATE)  
366 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 37278-03-8 REGISTRY  
CN Kinase (phosphorylating), 1-phosphofructo- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1-Phosphofructokinase  
CN D-Fructose-1-phosphate kinase  
CN E.C. 2.7.1.56  
CN Fructose 1-phosphate kinase  
CN **Phosphofructokinase**  
CN Phosphofructokinase 1  
DR 56379-56-7  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,  
CAPLUS, EMBASE, MEDLINE, TOXCENTER, TOXLIT

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

113 REFERENCES IN FILE CA (1967 TO DATE)  
113 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS  
RN 9001-80-3 REGISTRY  
CN Kinase (phosphorylating), phosphofructo- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 6-Phosphofructo-1-kinase  
CN 6-Phosphofructokinase  
CN 6-Phosphofructose-1-kinase  
CN ATP-dependent phosphofructokinase  
CN ATP:D-fructose 6-phosphate 1-phosphotransferase  
CN D-Fructose-6-phosphate 1-phosphotransferase  
CN E.C. 2.7.1.11  
CN Fructose 6-phosphate kinase  
CN Fructose 6-phosphokinase  
CN Nucleotide triphosphate-dependent phosphofructokinase  
CN Phospho-1,6-fructokinase  
CN **Phosphofructokinase**  
CN Phosphofructokinase 1  
CN Phosphohexokinase  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,  
CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, EMBASE, IPA,  
MEDLINE, MSDS-OHS, NAPRALERT, PROMT, TOXCENTER, TOXLIT, USPATFULL  
Other Sources: EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

4589 REFERENCES IN FILE CA (1967 TO DATE)  
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
4593 REFERENCES IN FILE CAPLUS (1967 TO DATE)